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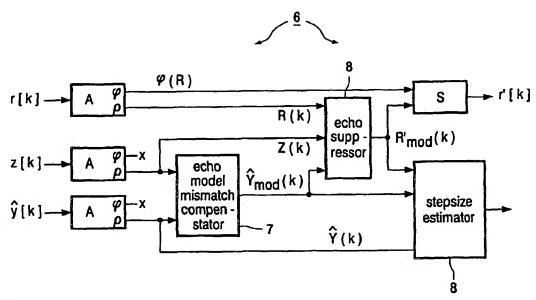
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(54) Title: ECHO CANCELLER WITH MODEL MISMATCH COMPENSATION



(57) Abstract: An interference canceller is described, comprising an adaptive filter for modeling an interference, such as an echo or noise, and a spectral processor for processing the modeled interference together with near end speech and the interference. The interference canceller further comprises an interference model mismatch compensator coupled to the adaptive filter for providing a mismatch signal to the spectral processor, said mismatch signal showing a speech independent decay. With the model mismatch signal of the interference canceller the interference power spectrum can be estimated very accurately leading to a significant convergence improvement of the acoustic canceller. Especially in the initial convergence phase at the start of a communication session a high quality operation of the acoustic canceller is achieved, which is important as this determines the first quality impression of the user.